

# PATENT ABSTRACTS OF JAPAN

(11)Publication number : 04-257563

(43)Date of publication of application : 11.09.1992

(51)Int.Cl.

C07D219/06  
A61K 31/435  
C07D471/04

(21)Application number : 03-205027

(71)Applicant : IMPERIAL CHEM IND PLC <ICI>

(22)Date of filing : 15.08.1991

(72)Inventor : BUTLIN ROGER JOHN  
GLARVEY DICKSON

(30)Priority

Priority number : 90 9018044 Priority date : 16.08.1990 Priority country : GB

## (54) TRICYCLIC HETEROCYCLIC DERIVATIVE, ITS PRODUCTION AND MEDICINAL PHARMACEUTICALS CONTAINING THIS COMPOUND AND HAVING ANTICANCER ACTION

(57)Abstract:

PURPOSE: To provide the novel tricyclic heterocyclic deriv. which has anticancer action by the interaction with a topoisomerase enzyme or its salts and hydrolyzable esters.

CONSTITUTION: The compd. of formula I (A is a (substd.) benzene ring, pyridine ring; R<sup>1</sup>, R<sup>2</sup> are 1 to 4C alkyl, 1 to 4C alkoxy; R<sup>3</sup> is H, 1 to 4C alkyl, 1 to 4C alkoxy); for example, 3-chloro-10-(4-hydroxy-3,5-dimethoxybenzyl)-9,10-dihydroacrydine-9-on. This compd. is obtd. by coupling the compd. of formula II and the compd. of formula III (Z is a substitutable group). The coupling reaction is executed at -10 to 150° C in a solvent, such as DMF, in the presence of a base (e.g.; sodium hydroxide).

